

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

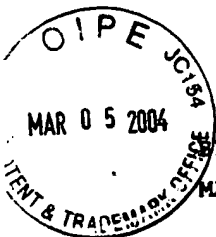
Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**



BY HAND DELIVERY
MARCH 5, 2004

DXT.NO.: BUN-8601

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vandermeer, J.

SERIAL NO. 10/005881

FILED: November 8, 2001

FOR: Investment Casting Mold and
Method of Manufacture

Art Unit: 1725

Examiner: K.Y. Lin

Commissioner for Patents
Alexandria, VA 22313

RESUBMISSION OF AMENDMENT UNDER 37 C.F.R. 1.312

In response to a phone conversations with Examiner Kyle Stern on March 1, and February 24, 2004 applicant resubmits the amendments under 37 C.F.R. 1.312. These amendments are presented by hand delivery.

These amendments previously were sent by facsimile on December 24, 2003 and on December 30, 2003. It was noted that these amendments previously were re-submitted by facsimile on February 3, 2004, February 12, 2004 and February 17, 2004 and February 24, 2004. Confirmations of fax transmissions are attached.

Respectfully Submitted,

John A. Parrish
Attorney for Applicant
Reg. No 31, 918
Ph.: 610 617 8960

HP LaserJet 3100
Printer/Fax/Copier/Scanner

SEND CONFIRMATION REPORT for
HP LaserJet 3100
6106179197
Dec-24-03 5:21PM

Job	Start Time	Usage	Phone Number or ID	Type	Pages	Mode	Status
706	12/24 5:18PM	2'40"	USPTO	Send.....	9/ 9	EC144	Completed.....

Total 2'40" Pages Sent: 9 Pages Printed: 0

I hereby certify that this correspondence is being sent by
Facsimile to the US Patent & Trademark office to phone no.
703-879-6995 On December 24, 2003

By John A. Parrish

9 Pages
Transmitted

REV. 02-01 2002-04-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vandermeer, J.

SERIAL NO. 10/005861

FILED: November 8, 2001

FOR: Investment Casting Mold and
Method of Manufacture

Art Unit: 1725

Examiner: K.Y. Lin

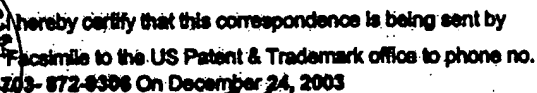
Assistant Commissioner for Patents
Washington, D.C. 20231

AMENDMENT UNDER 37 C.F.R. 1.512

In response to the examiner amendment dated October 1, 2003, kindly amend
this application without prejudice under 37 C.F.R. 1.512 as follows:

Remarks begin on page 9 of this paper.

Listing of claims begins on page 2 of this paper.



By John A. Parrish

DKT. NO. : 808-8601

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vandermeer, J.

SERIAL NO. 10/005881

Art Unit: 1725

FILED: November 8, 2001

Examiner: K.Y. Lin

FOR: Investment Casting Mold and Method of Manufacture

Assistant Commissioner for Patents
Washington, D.C. 20231

AMENDMENT UNDER 37 C.F.R. 1.312

In response to the examiners amendment dated October 1, 2003, kindly amend this application without prejudice under 37 C.F.R. 1.312 as follows:

Remarks begin on page 9 of this paper.

Listing of claims begins on page 2 of this paper.

I hereby certify that this correspondence is being sent by
Facsimile to the US Patent & Trademark office to phone no.
571 273 1179 On February 3, 2004

15 Pages

By


John A. Parrish

DET. NO. : 2004-8601

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vandermeer, J.

SERIAL NO. 10/005881

Art Unit: 1725

FILED: November 8, 2001

Examiner: K.Y. Lin

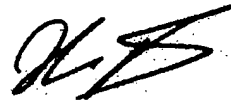
FOR: Investment Casting Mold and
Method of Manufacture

Commissioner for Patents
Alexandria, VA 22313

RESUBMISSION OF AMENDMENT UNDER 37 C.F.R. 1.312

In response to todays phone conversation with the Examiner, applicant
resubmits the amendments under 37 C.F.R. 1.312 sent by facsimile on December 24,
2003 and on December 30, 2003. It was noted in that conversation that the attached
amendments have not yet been entered into the file.

Respectfully Submitted,



John A. Parrish
Attorney for Applicant
Reg. No 31, 918
Ph.: 610 617 8960

HP LaserJet 3100
Printer/Fax/Copier/Scanner


SEND CONFIRMATION REPORT FOR
HP LaserJet 3100
0108170197
Feb-3-04 5:26PM

Job	Start Time	Usage	Phone Number or ID	Type	Pages	Mode	Status
788	2/ 3 5:26PM	4'02"	USPTO	Send.....	15/15	EC144	Completed.....

Total 4'02" Pages Sent: 15 Pages Printed: 0

I hereby certify that this correspondence is being sent by
Facsimile to the US Patent & Trademark Office in place of
US 010 1170 On February 3, 2004.

15 Pages


John A. Panch

USPTO-1170-0001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vandermere, J.

SERIAL NO. 10/008821

FILED: November 8, 2001

FOE: Investment Casting Mold and
Method of Manufacture

Art Unit: 1725

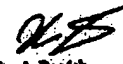
Examiner: E.Y. Lin

Commissioner for Patents
Alexandria, VA 22313

RESUBMISSION OF AMENDMENT UNDER 37 C.F.R. 1.512

In response to today's phone conversation with the Examiner, applicant
resubmits the amendments under 37 C.F.R. 1.512 sent by facsimile on December 24,
2003 and on December 30, 2003. It was noted in that conversation that the attached
amendments have not yet been entered into the file.

Respectfully Submitted,


John A. Panch
Attorney for Applicant
Reg. No. 01, 718
FL: 610-617-8960

HP LaserJet 3100
Printer/Fax/Copier/Scanner

SEND CONFIRMATION REPORT for
HP LaserJet 3100
6106178197
Feb-27-04 10:28AM

Job	Start Time	Usage	Phone Number or ID	Type	Pages	Mode	Status
850	2/27 10:23AM	5'53"	USPTO	Send.....	23/23	EC144	Completed.....

Total 5'53" Pages Sent: 23 Pages Printed: 0

I hereby certify that this correspondence is being sent by
Facsimile to the US Patent & Trademark office to phone no.
877 273 1163 On February 27, 2004

22 Pages

By 
John A. Parrish

DET-NO. 1 2002-0401

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vandermeer, J.

SERIAL NO. 10/005881

FILED: November 8, 2001

FOR: Investment Casting Mold and
Method of Manufacture

Art Unit: 1725


Examiner: K.Y. Lin

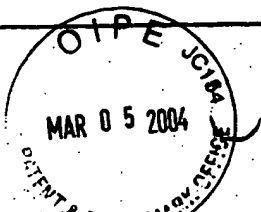
Commissioner for Patents
Alexandria, VA 22313

RESUBMISSION OF AMENDMENT UNDER 37 C.F.R. 1.312

In response to a phone conversation with Examiner Kyle Stern on February 24,
applicant resubmits the amendments under 37 C.F.R. 1.312 sent by facsimile on
December 24, 2003 and on December 30, 2003. It was noted in that these amendments
previously were re-submitted by facsimile on February 3, 2004, February 12, 2004 and
February 17, 2004 and February 24, 2004. Confirmations of these fax transmissions are
attached.

Respectfully Submitted,


John A. Parrish
Attorney for Applicant
Reg. No 31, 918



I hereby certify that this correspondence is being sent by
Facsimile to the US Patent & Trademark office to phone no.
571 273 1183 On February 27, 2004

22 Pages

By

John A. Parrish

DET. NO. 1 SUM-8401

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vandermeer, J.

SERIAL NO. 10/005881

Art Unit: 1725

FILED: November 8, 2001

Examiner: K.Y. Lin

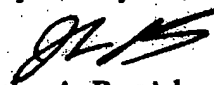
FOR: Investment Casting Mold and
Method of Manufacture

Commissioner for Patents
Alexandria, VA 22313

RESUBMISSION OF AMENDMENT UNDER 37 C.F.R. 1.312

In response to a phone conversation with Examiner Kyle Stern on February 24, applicant resubmits the amendments under 37 C.F.R. 1.312 sent by facsimile on December 24, 2003 and on December 30, 2003. It was noted in that these amendments previously were re-submitted by facsimile on February 3, 2004, February 12, 2004 and February 17, 2004 and February 24, 2004. Confirmations of these fax transmissions are attached.

Respectfully Submitted,


John A. Parrish
Attorney for Applicant
Reg. No 31, 918

HP LaserJet 3100
Printer/Fax/Copier/Scanner

SEND CONFIRMATION REPORT for
HP LaserJet 3100
0100170197
Feb-24-04 4:00PM

Job	Start Time	Usage	Phone Number or ID	Type	Pages	Mode	Status
835	2/24 4:04PM	5'20"	USPTO	Send.....	21/21	EC144	Completed.....

Total 5'20" Pages Sent: 21 Pages Printed: 0

I hereby certify that this correspondence is being sent by
Facsimile to the US Patent & Trademark Office to please see
SP1 270 1100 On February 24, 2004

21 Pages

By 
John A. Parrish

002-ND-1 000-0001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vandermeer, J.

SERIAL NO. 10/005881

Art Unit: 1725

FILED: November 8, 2003

Examiner: K.Y. Lin


FOR: Investment Casting Mold and
Method of Manufacture

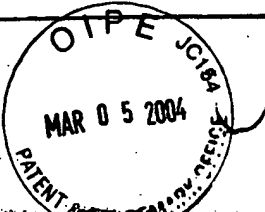
Commissioner for Patents
Alexandria, VA 22313

RESUBMISSION OF AMENDMENT UNDER 37 C.F.R. 1.512

In response to a phone conversation with Examiner Kyla Stern on February 24,
applicant resubmits the amendments under 37 C.F.R. 1.512 sent by facsimile on
December 24, 2003 and on December 30, 2003. It was noted in that these amendments
previously were re-submitted by facsimile on February 3, 2004, February 12, 2004 and
February 17, 2004. Confirmations of these fax transmissions are attached.

Respectfully Submitted,


John A. Parrish
Attorney for Applicant
Reg. No 31, 538
Ph: 630 617 0900



I hereby certify that the correspondence is being sent by
Facsimile to the US Patent & Trademark office to phone no.
571 273 1163 On February 24, 2004

21 Pages

By

John A. Parrish

DKT.NO.: EUN-8601

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vandermeer, J.

SERIAL NO. 10/005881

Art Unit: 1725

FILED: November 8, 2001

Examiner: K.Y. Lin

FOR: Investment Casting Mold and
Method of Manufacture

Commissioner for Patents
Alexandria, VA 22313

RESUBMISSION OF AMENDMENT UNDER 37 C.F.R. 1.312

In response to a phone conversation with Examiner Kyle Stern on February 24, applicant resubmits the amendments under 37 C.F.R. 1.312 sent by facsimile on December 24, 2003 and on December 30, 2003. It was noted in that these amendments previously were re-submitted by facsimile on February 3, 2004, February 12, 2004 and February 17, 2004. Confirmations of these fax transmissions are attached.

Respectfully Submitted,

John A. Parrish
Attorney for Applicant
Reg. No 31, 918
Ph: 610 617 8960

HP LaserJet 3100
Printer/Fax/Copier/Scanner

SEND CONFIRMATION REPORT for
HP LaserJet 3100
6106178187
Feb-18-04 11:11AM

Job	Start Time	Usage	Phone Number or ID	Type	Pages	Mode	Status
616	2/18 11:07AM	4'11"	USPTO	Send.....	16/16	EC144	Completed.....
Total		4'11"	Pages Sent: 16		Pages Printed: 0		

I hereby certify that this correspondence is being sent by
Facsimile to the US Patent & Trademark Office, please call
877 572 1571 On February 18, 2004

16 Pages

By 
John A. Parrish

REV. 09-01 888-0001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vandermeest, J.

SERIAL NO. 10/005881

Art Unit: 1735

FILED: November 8, 2001

Examiner: K.Y. Lin

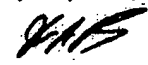
FOBI: Investment Casting Mold and
Method of Manufacture

Commissioner for Patents
Alexandria, VA 22313

RESUBMISSION OF AMENDMENT UNDER 37 C.F.R. 1.512

In response to a phone message by Examiner Dunn on February 17, applicant
resubmits the amendments under 37 C.F.R. 1.512 sent by facsimile on December 24,
2003 and on December 30, 2003. It was noted in that these amendments previously
were re-submitted on February 3, 2004 and February 12, 2004.

Respectfully Submitted,


John A. Parrish
Attorney for Applicant
Reg. No. 21,918
Ph: 610 617 8940



I hereby certify that this correspondence is being sent by
Facsimile to the US Patent & Trademark Office at phone no.
571 273 1171 On February 18, 2004

15 Pages

By John A. Parrish

DKT. NO.: SUB-8601

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vandermeer, J.

SERIAL NO. 10/005881

Art Unit: 1725

FILED: November 8, 2001

Examiner: K.Y. Lin

FOR: Investment Casting Mold and
Method of Manufacture

Commissioner for Patents
Alexandria, VA 22313

RESUBMISSION OF AMENDMENT UNDER 37 C.F.R. 1.312

In response to a phone message by Examiner Dunn on February 17, applicant
resubmits the amendments under 37 C.F.R. 1.312 sent by facsimile on December 24,
2003 and on December 30, 2003. It was noted in that these amendments previously
were re-submitted on February 3, 2004 and February 12, 2004.

Respectfully Submitted,

John A. Parrish
Attorney for Applicant
Reg. No 31, 918
Ph.: 610 617 8960

HP LaserJet 3100
Printer/Fax/Copier/Scanner

SEND CONFIRMATION REPORT for
HP LaserJet 3100
0106170197
Feb-12-04 11:38AM

Job	Start Time	Usage	Phone Number or ID	Type	Pages	Mode	Status
798	2/12 11:34AM	4'00"	USPTO	Send.....	15/15	EC144	Completed.....

Total 4'00" Pages Sent: 15 Pages Printed: 0

I hereby certify that this correspondence is being sent by
Facsimile to the US Patent & Trademark Office to please do
NOT SEND TO THE PUBLIC OR TO ANY OTHER OFFICE.

15 Pages

By John A. Parrish

REV. NO. 1 2000-0401

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vandermaer, J.

SERIAL NO. 10/085981

Art Unit: 1728

FILED: November 8, 2001

Examiner: K.Y. Lin

FOR: Investment Casting Mold and
Method of Manufacture

Commissioner for Patents
Alexandria, VA 22313

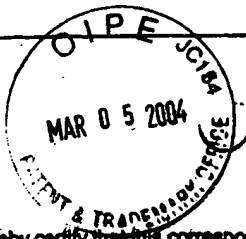
RESUBMISSION OF AMENDMENT UNDER 37 C.F.R. 1.312

In response to today's phone conversation with Examiner Dana, applicant
resubmits the amendments under 37 C.F.R. 1.312 sent by facsimile on December 24,
2003 and on December 30, 2003. It was noted in that conversation that the attached
amendments have not yet been entered into the file.

Respectfully Submitted,



John A. Parrish
Attorney for Applicant
Reg. No. 51, 915
Ph: 610 617 8600



I hereby certify that this correspondence is being sent by
Facsimile to the US Patent & Trademark office to phone no.
571 273 1171 On February 12, 2004

15 Pages

By 
John A. Parrish

DKT.NO.: RUS-8681

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vandermeer, J.

SERIAL NO. 10/005881

Art Unit: 1725

FILED: November 8, 2001

Examiner: K.Y. Lin

FOR: Investment Casting Mold and
Method of Manufacture

Commissioner for Patents
Alexandria, VA 22313

RESUBMISSION OF AMENDMENT UNDER 37 C.F.R. 1.312

In response to todays phone conversation with Examiner Dunn, applicant
resubmits the amendments under 37 C.F.R. 1.312 sent by facsimile on December 24,
2003 and on December 30, 2003. It was noted in that conversation that the attached
amendments have not yet been entered into the file.

Respectfully Submitted,



John A. Parrish
Attorney for Applicant
Reg. No 31, 918
Ph: 610 617 8960

HP LaserJet 3100
Printer/Fax/Copier/Scanner

SEND CONFIRMATION REPORT for
HP LaserJet 3100
6106179197
Dec-30-03 11:20AM

Job	Start Time	Usage	Phone Number or ID	Type	Pages	Mode	Status
715	12/30 11:20AM	0'50"	USPTO	Send.....	3/ 3	EC144	Completed.....

Total 0'50" Pages Sent: 3 Pages Printed: 0

I hereby certify that the accompanying fee was sent by
check to the US Patent & Trademark Office to please Mr.
RUB-073499 on December 29, 2003

3 Pages


John A. Martin

007.10-1 000-0001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vandewater, J.

SERIAL NO. 10/005001

FILED: November 8, 2001

POB: Investment Casting Mold and
Method of Manufacture

Art Unit: 1728

Examiner: R.Y. Lin

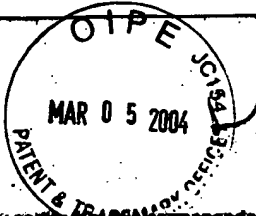
Assistant Commissioner for Patents
Washington, D.C. 20231

SUPPLEMENTAL AMENDMENT UNDER 37 C.F.R. 1.512

In further response to the Examiner's Amendment dated October 1, 2003, and
supplemental to the Amendment under 37 C.F.R. 1.512 submitted by facsimile on
December 24, 2003, kindly amend this application without prejudice under 37 C.F.R.
1.512 as follows:

Remarks begin on page 3 of this paper.

Amendments to the specification begin on page 2 of this paper.



I hereby certify that this correspondence is being sent by
Facsimile to the US Patent & Trademark office to phone no.
703-872-5300 On December 30, 2003

By

John A. Parrish

DKT. NO.: 2003-2601

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vandermeer, J.

SERIAL NO. 10/005881

FILED: November 8, 2001

FOR: Investment Casting Mold and
Method of Manufacture

Art Unit: 1725

Examiner: K.Y. Lin

Assistant Commissioner for Patents
Washington, D.C. 20231

SUPPLEMENTAL AMENDMENT UNDER 37 C.F.R. 1.312

In further response to the Examiners Amendment dated October 1, 2003, and
supplemental to the Amendment under 37 C.F.R. 1.312 submitted by facsimile on
December 24, 2003, kindly amend this application without prejudice under 37 C.F.R.
1.312 as follows:

Remarks begin on page 3 of this paper.

Amendments to the specification begin on page 2 of this paper.